

DHEC 3103 (08/1997)

Mining Form MR-500

## S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL BUREAU OF LAND AND WASTE MANAGEMENT DIVISION OF MINING AND SOLID WASTE PERMITTING 2600 Bull Street, Columbia, SC 29201

Telephone Number: (803) 896-4261 Fax Number: (803) 896-4001

Permit No.

## RECLAMATION PLAN DHEC FORM 500 DATE VERSION ADOPTED 7/1/94

As required in Section 48-20-90 of the South Carolina Mining Act, "An operator shall submit with his application for an operating permit a proposed reclamation plan. The reclamation plan for an operating permit only must be furnished to the local soil and water conservation district in which the mining operation is to be conducted. The plan must include as a minimum each of the elements specified in the definition of 'reclamation plan' in Section 48-20-40 and information required by the department. The reclamation plan must provide that reclamation activities, particularly those relating to control of erosion, to the extent feasible must be conducted simultaneously with mining operations and be initiated at the earliest practicable time after completion of termination of mining on a segment of the permitted land. The plan must provide that reclamation activities must be completed within two years after completion or termination of mining on each segment of the area for which an operation permit is requested unless a longer period specifically is permitted by the department."

with	in two years after comple	gment of the permitted land etion or termination of min od specifically is permitted	ing on each segment	of the area for which an	ties must be completed operation permit is re-
	APPLICANT INFORMAT  1. Name of Company: M				VISION OF MINING & WASTE MANAGEMEN BL&WM
	2. Name of Proposed Mir		al la	County: _	Berkeley
	3. Home Office Address:		a. " I		843-688-5461
	Ridge	(Street and P.O. Box)	SC	29472-6911	(Telephone No.)
	4. Local Office Address:	(City) Same as	(State)	(Zip Code)	(Fax No.)
	4. Local Office / Idahese.	(Street and P.O. Box)			(Telephone No.)
		(City)	(State)	(Zip Code)	(Fax No.)
T 81	<ol><li>Name of company per and correspondence:</li></ol>	sonnel and their title to be Mark Edwins - Owner	the contact for official		
	6. Location of Mine: US I	Hwy 176 4169 State Road		Holly Hill	* ************************************
	S	tate or County Hwy No.		Nearest To	wn or City
l.	ENVIRONMENTAL PROT	rection	eg s	est n	10 50 39
	Describe practices to p mining and reclamation	protect adjacent resources n. A natural buffer around r	such as roads, wildlife nine site will be left bet	a areas, woodland, cropl ween adjoining land own	and and others during ers. Dust controls will be
		handled by watering.	2	35 84	
		•		a	<b>v</b>
			# n h		
	Describe proposed me     Water table from soil si	ethods to limit significant ac urvey information shows gr	dverse effects on adjac ound water at 6° or mo	ent surface water and gr re. Material could be bro	oundwater resources. ught back into mine and
	filled for farming purpo		5 s	30° as	i a
	a			a a	20 (80)
	Describe proposed me proposed permitted are	ethods to limit significant a ea, None on site.	dverse effects on knov	vn significant cultural or	historic sites within the
			# - E	* # "	

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<ol> <li>Describe method to prevent of permitted area. None anticipal</li> </ol>	or eliminate conditions that ited.	could be hazardo	ous to animal or	fish life in or adjacent to th
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E Donosiba have annihant will a				
<ol><li>Describe how applicant will on Department of Health and Env</li></ol>	omply with State air quality ironmental Control. Haul re	and water qualit ads to be watered	y standards as i d as needed for	established by the S.C. dust control. If discharge is
·, · · · · · · · · · · · · · · · · · ·				and will be pumped from se
	basin.		-	
				*
DECLAMATION OF A FEFOTER				
I. RECLAMATION OF AFFECTED	AKEA			
6. State useful purpose(s) the af				ne purpose may be checke
but information should be submit	ted to support the feasibilit	y for each propos	ed purpose.	•
a. Lake or pond	,	f. Grassland	IX	
F-1771				
b. Agriculture X		g. Recreation		-
c. Woodlands		h. Wetlands		
d. Residential	,	i. Park		
e. Commercial		j. Other		
7 State the final manipular and				
<ol> <li>State the final maximum surfa Surface gradients steeper tha</li> </ol>	ce gradient(s) (slope) in sc n 3H:1V (18 degrees or 33	ii, sand, or other i nercent) may be	unconsolidated required to subt	materials on reclaimed lan
studies to demonstrate that the Final slopes to be 3:1 or flatter				
Final slopes to be 3.1 or flatter	•			•
8. How will the final slopes in unc	onsolidated material be acc	complished? If the	e slope will be b	y backfilling, demonstrate t
there is adequate material to a	complish the stated final g	adient. If gradien	t is to be achiev	ed by bringing in material fr
outside the permitted area, sta by grading, show that there is a				
line and edge of highwall). Ope				
is adequate materials in backf Final grading will be accomplis				
grassed and or returned to farn		Sir and other cloar	, 3011 110111 011 011	o to thosp diabilize dioposi, i
grassou and of returnou to fam	, idilar			
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9. Describe the plan for revegetal				
not be limited to the following: (	a) planned soil test; (b) site	preparation and f	ertilization; (c) s	eed or plant selection; (d) ra
of seeding or amount of plantin Soil test to be taken and recom				
seeded. Plant selection will foll	ow Best Management Prac	ices guidelines or	NPDES Critica	l Area technical guidelines.
Inspections to be made to deter	mine any follow up on mon	thly basis after se	eding.	
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	ater will be at least 4' deep	or more.			
	ater will be at least 4' deep	or more.			
	nter will be at least 4' deep	or more.			
	iter will be at least 4' deep	or more.	·	·	
* * * * * * * * * * * * * * * * * * * *	(oe re) or and hourd of		o mantamou.		-
<ol> <li>For mines to be recl</li> </ol>	ken to prevent noxious, oc claimed as lakes or ponds cent (50%) of the pond so	, provide supporti	ing information tha	lecting and rem at a minimum w	aining on the min ater depth of four
	v	,		·	
avations. Identify area	mit information about pra- as of potential danger (ve y provisions. These provi signs to be posted, locked	rtical walls, unstal	ble slopes, unstab	le surface on c	lay slimes, etc.) a
final real-matter	and the former of the	و د د د د د د د د د د د د د د د د د د د			
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at are the maintenance eriorate before released pection will be done on		reclamation prac	tices established	on the affected	länd will not
- <b>. .</b>					
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v ubblicable					
nimizing erosion, siltation	on and other pollution.		-, -, -, -, -, -, -, -, -, -, -, -, -, -		
scribe method of restor	ration or establishment o	f stream channel:	s, stream banks a	nd site drainage	to a condition
					•
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thod of reclaiming settl	ding and/or sediment non	ds.			. •
•	<i>;</i>				
			,		
Not Applicable					
ectly connected with the	e mining, cleaning, and p	reparation of mine	eral substances mi	ned and include	es all waste mate
athod of control of conta	aminants and disposal of	mino wasto soil r	ack minoral sera	n tailinge elime	s and other mat
					•
	lizer or lime for revegetati	on purposes).			
ists for (a) acid rock dra scharge limitation parai	rainage; (b) where the Na imeters other than pH and	tional Pollutant D d Total Suspende	ischarge Eliminati	on Systems (N	PDES) Permit ha
	m being harmful to the ists for (a) acid rock drict acid acid rock drict acid acid acid acid acid acid acid acid	m being harmful to the environment. A closure ists for (a) acid rock drainage; (b) where the Na scharge limitation parameters other than pH and ackpiles (excludes fertilizer or lime for revegetation Not Applicable  athod of control of contaminants and disposal of ectly connected with the mining, cleaning, and prosited on or in the permit area from any source Not Applicable  thod of reclaiming settling and/or sediment pointly be reclaimed as part of pond or other related upon the settlement of the reclaimed as part of pond or other related upon the settlement of the reclaimed as part of pond or other related upon the settlement of the reclaimed as part of pond or other related upon the settlement of the reclaimed as part of pond or other related upon the settlement of the reclaimed as part of pond or other related upon the settlement of the reclaimed as part of pond or other related upon the settlement of the settleme	m being harmful to the environment. A closure plan is not necesists for (a) acid rock drainage; (b) where the National Pollutant Discharge limitation parameters other than pH and Total Suspendenckpiles (excludes fertilizer or lime for revegetation purposes).  Not Applicable  Athod of control of contaminants and disposal of mine waste soil, recitly connected with the mining, cleaning, and preparation of mine posited on or in the permit area from any source.  Not Applicable  thod of reclaiming settling and/or sediment ponds.  Il be reclaimed as part of pond or other related uses.	m being harmful to the environment. A closure plan is not necessary for all mines ists for (a) acid rock drainage; (b) where the National Pollutant Discharge Eliminat scharge limitation parameters other than pH and Total Suspended Solids (TSS); (c) eckpiles (excludes fertilizer or lime for revegetation purposes).  Not Applicable  Athod of control of contaminants and disposal of mine waste soil, rock, mineral, scraectly connected with the mining, cleaning, and preparation of mineral substances mit posited on or in the permit area from any source.  Not Applicable  thod of reclaiming settling and/or sediment ponds.  Il be reclaimed as part of pond or other related uses.	Not Applicable  athod of control of contaminants and disposal of mine waste soil, rock, mineral, scrap, tailings, slime ectly connected with the mining, cleaning, and preparation of mineral substances mined and include cosited on or in the permit area from any source.  Not Applicable  thod of reclaiming settling and/or sediment ponds.  Il be reclaimed as part of pond or other related uses.

- 17. Identify any structures (e.g. buildings, roads) that are proposed to remain as part of final reclamation. Provide justification for leaving any structures. Access road will be left as this will provide access to area after completion of project.
- 18. Attach two (2) copies of a map of the area (referred to as the RECLAMATION MAP) that shows the reclamation practices and conservation practices to be implemented. The following should be shown:
  - A. The outline of the proposed final limits of the excavation during the number of years for which the permit is requested.
  - B. The approximate final surface gradient(s) and contour(s) of the area to be reclaimed. This would include the sides and bottoms of mines reclaimed ponds and lakes. At this point, plans could include both pond, etc. However, at this time plans are to seed for grassland or row crops.
  - C. The outline of the tailings disposal area.
  - D. The outline of disposal areas for spoil and refuse (exclusive of tailings ponds).
  - E. The approximate location of the mean shore line of any impoundment or water body and inlet and/or outlet structures which will remain upon final reclamation.
  - F. The approximate locations of access roads, haul roads, ramps or buildings which will remain upon final reclamation.
  - G. The approximate locations of various vegetative treatments.
  - H. The proposed locations of re-established streams, ditches or drainage channels to provide for site drainage.
  - The proposed locations of diversions, terraces, silt fences, brush barriers or other Best Management Practices to be used for preventing or controlling erosion and off-site siltation.
  - J. Proposed locations of the measures to provide safety to persons and adjoining property. 3:1 side slopes
  - K. Segments of the mine that can be mined and reclaimed as an ongoing basis.
  - L. The boundaries of the permitted area.
  - M. The boundaries of the affected area for the anticipated life of the mine.
  - N. The boundaries of the 100-year floodplain, where appropriate.
  - O. Identify sections of mine where the final surface gradient will be achieved by grading and/or backfilling.
  - P. A legend showing the name of the applicant, the name of the proposed mine, the north arrow, the county, the scale, the date of preparation and the name and title of the person who prepared the map.

THE REQUIRED RECLAMATION MAP SHALL HAVE A NEAT, LEGIBLE APPEARANCE AND BE OF SUFFICIENT SCALE TO CLEARLY SHOW THE REQUIRED INFORMATION LISTED ABOVE. THE BASE FOR THE MAP SHALL BE EITHER A SPECIALLY PREPARED LINE DRAWING, AERIAL PHOTOGRAPH, ENLARGED USGS TOPOGRAPHIC MAP OR A RECENTLY PREPARED PLAT. RECLAMATION MAP SHOULD BE THE SAME SCALE USED FOR THE SITE MAP.

## IV. SCHEDULE FOR IMPLEMENTATION OF CONSERVATION AND RECLAMATION PRACTICES

19. As stated in Section 48-20-90 of the S.C. Mining Act, reclamation activities, to the extent feasible, must be conducted simultaneously with mining operations. Identify which areas or segments of the mine are not feasible to reclaim simultaneously with mining. Provide reasons why reclamation can not proceed simultaneously with mining in these areas.

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20. Section 48-20-40(16)(I) of the S.C. Mining Act requires a "time schedule, including the anticipated years for completion of reclamation by segments." This time schedule should meet the requirements of Section 48-20-90 of the Mining Act.

## SCHEDULE FOR IMPLEMENTING CONSERVATION AND RECLAMATION PRACTICES

Conservation &  Reclamation	Applied Applied		Planned		*Applied	
Practices	ог Area	Amount	Year	Amount	Month/Year	Notes
Strip and stockpile topsoil along affected	A	<10 acres	2013			
area boundary	A	10 20103	2013			
Slope highwall to final gradients along		<10	2017		<del>                                     </del>	
outside final pit highwall and grass	A	<10 acres	2017			
Strip and stockpile topsoil along affected						
area boundary	В	<10 acres	2017			
Slope highwall to final gradients along						
outside final pit highwall and grass	В	<10 acres	2024	-4		
Strip and stockpile topsoil along affected		<del>  -</del>			+	
· · · · · · · · · · · · · · · · · · ·	С	<10 acres	2024			•
area boundary						
Slope highwall to final gradients along	C	<10 acres	2027		-	
outside final pit highwall and grass					1	<del>,</del>
Strip and stockpile topsoil along affected	D .	<10 acres	2027		]	•
area boundary		17 3220				
Slope highwall to final gradients along	D	<10 acres	2030			
outside final pit highwall and grass	~	1	2030	•	.] [	
Strip and stockpile topsoil along affected	E	/10	2030		<b>T</b>	
area boundary	£	<10 acres	2030		·	
Slope highwall to final gradients along	E	<10	2033	-	<u> </u>	
outside final pit highwall and grass	E	<10 acres	2033			
Strip and stockpile topsoil along affected						
	F	<10 acres	2033			
trea boundary Hope highwall to final gradients along					ļ. ———	
	F	<10 acres	2036		1	
utside final pit highwall and grass					ļ	
strip and stockpile topsoil along affected	· G	<10 acres	2036			*
rea boundary						
lope highwall to final gradients along	· G	<10 acres	2038			
utside final pit highwall and grass		10 43135				
trip and stockpile topsoil along affected	н	4.24 acres	2038			· · · · · · · · · · · · · · · · · · ·
rea boundary		4.24 10103	2050			
lope highwall to final gradients along	Н	4.24 acres	2000			
	п	4.24 acres	- 2038			
utside final pit highwall and grass Access Koad - plan to keep access road			· · ·	<del>                                     </del>	<del> </del>	
pen for use in farming operations	I	1,380'			· 1	
access Road - plan to keep access road		1055		<del> </del>		<del> </del>
pen for use in farming operations	1	1,980'				• .
ccess Road - plan to keep access road						
pen for use in farming operations	ĸ	1 acre	•			
hen for age in fatting obetations					<u> </u>	
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Sediment Basin relocates as necessary				.		
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YOU ARE NOTIFIED THAT:			*	e ×	
You, the operator, must file an forth hereinabove; and	application to modi	fy the reclamation	plan in the ever	nt actual reclamation	varies from the set
<ol> <li>If at any time it appears to the and requirements of the S.C. M 48-20-150.</li> </ol>	Department that the Mining Act, the Depar	activities under that artment may modi	ne reclamation   fy the RECLAM	olan are failing to ac ATION PLAN in acc	hieve the purposes ordance to Section
Mark Edwin	4	e e		*	
Signature of Applicant/Operator or	his Authorized Rep	resentative	2		John W
n rece					
Mark Edwins Printed Name of Applicant/Operato	or or his Authorized	Poprocontativo			
Timod Name of Applicant Operato	or this Additionized i	Representative		20 E	
Title		#			
Title	- H	*	<del></del>		
5/29/13	i.		e e	# * # # #	
Date				9	*
Department Use Only	*				2007 60
Permit No.; Date Applic	ation Approved:	Date	Bond Rec'd: _		
Bond Amount:				15	
·					करमूहर -
ACTION TAKEN ON THIS RECLAN	MATION PLAN		(2		
Approved[	Denied	Annroyed with Ad	ditional Terms a	nd Conditions	
	seried	Approved with Adi	aldonar termiş al	id Conditions	
Ву:					
By:DIVISION DIRECTOR	6			e 8	
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Date:					
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